Maryland Lyme Disease (LD) Case Report Form

PATIENT INFORMATION									
NAME OF PATIENT - LAST FIRST					S			DATE reported to HD:	
			TELEPHONE NUMBERS Home: V						
								NEDSS:	
Address			in Codo:		County	of Doole	Janaa.	CAS	
Address:		21	ip Code:		County	of Resid	ience:		
— Date of highly (mondely and)	T								
☐ Male Date of birth: (mmddyyyy) Sex: ☐ Female				_	□American Indian or Alaskan Native □Asian □Black or African American □White				
Unknown	□yes	□no □	_			Native Hawaiian or Pacific Islander ☐Unknown			
PHYSICIAN / PROVIDER INFORMATION									
Physician:	Phone:					FAX:			
LABORATORY FINDINGS									
EIA/IFA (IgM and/or IgG) ☐ positive ☐ eq	uivocal	□ 1	negative	□ not	done				
☐ check if assay uses (041	tanta (alanak wikat amalian).	
Specimen collection date:	(if not s	erum, sp	pecify):					tests (check what applies): burgdorferi cultured	
M	positive		negative	□ not	done			F titer higher than	
Chariman collection date:	-		_	_				rum titer*?	
(if not serum, specify):	Da (FlaB)	□39	kDa (BmpA	a) [21-2	25 kDa (0	OspC)	☐ Oth	ner (please specify):	
lgG: □	positive		negative	□ no	t done				
Please indicate positive WB bands, if known. For IgM, 2 of 3 bands must be positive □93	_		_	□45 kDa	□44 kF	20	Speci	men collection date:	
For IgG , 5 of 10 bands must be positive				□43 kDa □21 kDa					
EXPOSURE AND CLINICAL SIGNS AND SYMPTOMS									
Did the health care provider diagnose the patient with LE yes □ no	Date of	f LD diag	nosis:			Date of	sympto	om onset :	
Exposure: If EM is present, was the patient in potential tick habitats in a Lyme disease endemic county ≤30 days before onset?									
□ yes □ no □ unknown									
Case definition signs and symptoms			Non-co	nfirmato	ry signs	s and sy	/mpto	<u>ms</u>	
EM rash (> 5 cm in diameter)	no	unknow	n (<i>cneck a</i> ⊟ Arthr	ll that app	y):		Луосаі	rditis	
Arthritis (objective episodes of joint swelling)				☐ Bundle branch block ☐ Neck p					
Bells palsy or other cranial neuritis				☐ Cognitive impairment ☐ Other rash					
Radiculoneuropathy				☐ Encephalopathy ☐ Palpitations					
Lymphocytic meningitis				☐ Fatigue ☐ Paresthesias ☐ Peripheral neuropathy					
Encephalomyelitis*				☐ Headache ☐ Visual/auditory impairment					
*If encephalomyelitis is checked, CSF titer must be higher than serum titer			☐ Myal	gias			Sympto	om(s) not listed	
2 nd or 3 rd degree atrioventricular block									
SUPPLEMENTAL INFORMATION									
Was the patient pregnant at the time of illness?	☐ yes	□ no	☐ unkno	own					
If the patient had EM, was there:	☐ A sing	gle EM or ☐ multiple EM rashes							
Was the patient hospitalized for this illness?	☐ yes	□ no □ unknown							
Antibiotics used for this illness (check all that apply):	☐ doxyc	ycline	☐ ceftriax	one 🗆	penicillin	□ am	oxicillir	n □ azithromycin	
, , , , , , , , , , , , , , , , , , , ,	□ cefuro	xime axe	etil 🗆 oth	ner:					
Combined duration of antibiotics for this illness:									
FOR HEALTH DEPARTMENT SURVEILLANCE USE ONLY									
Confirmed Case			☐ <u>Probable Case</u>				Suspect Case		
☐ EM with potential exposure in a LD endemic county <30 days			Physician diagnosed LD with				EM without potential exposure in a LD		
before illness, <u>or</u> EM with lab evidence of infection and without potential			non-confirmatory signs and symptoms,				endemic county <30 days before illness <u>and</u> without any laboratory evidence of infection,		
exposure in a LD endemic county <30 days before illness, or			<u>and</u>				<u>or</u>		
☐ at least one late confirmatory clinical signs and symplab evidence of infection	laboratory evidence of infection				☐ No clinical information but laboratory evidence of infection (i.e. a laboratory report only)				

LYME DISEASE (LD) SURVEILLANCE CASE DEFINITION (07-ID-11)

Clinical description:

A systemic, tickborne disease with protean manifestations, including dermatologic, rheumatologic, neurologic, and cardiac abnormalities. The best clinical marker for the disease is the initial skin lesion (i.e., erythema migrans {EM}) that occurs in 60%-80% of patients.

Surveillance case definition:

This surveillance case definition was developed for national reporting of Lyme disease; it is not intended to be used in clinical diagnosis.

Case classifications:

Confirmed case:

- EM with a known exposure (as defined below), or
- EM with laboratory evidence (as defined below) of infection and without a known exposure, or
- At least one late manifestation that has laboratory evidence of infection

Probable:

Physician-diagnosed LD that has laboratory evidence of infection with non-confirmatory* signs and symptoms

Suspect:

- A case of EM where there is no known exposure and no evidence of infection, or
- A case with laboratory evidence of infection but no clinical information available (e.g. a laboratory report)

Definitions and Clarifications:

Erythema migrans (EM). For purposes of surveillance, EM is defined as a skin lesion that typically begins as a red macule or papule and expands over a period of days to weeks to form a large round lesion, often with partial central clearing. A single primary lesion must reach greater than or equal to 5 cm in size. Secondary lesions also may occur. Annular erythematous lesions occurring within several hours of a tick bite represent hypersensitivity reactions and do not qualify as EM. For most patients, the expanding EM lesion is accompanied by other acute symptoms, particularly fatigue, fever, headache, mildly stiff neck, arthralgia, or myalgia. These symptoms are typically intermittent.

The diagnosis of EM must be made by a physician. Laboratory confirmation is recommended for persons with no known exposure.

Confirmatory late manifestations include any of the following when an alternate explanation is not found:

- Musculoskeletal system. Recurrent, brief attacks (weeks or months) of objective joint swelling in one or a few
 joints, sometimes followed by chronic arthritis in one or a few joints. Manifestations not considered as criteria for
 diagnosis include chronic progressive arthritis not preceded by brief attacks and chronic symmetrical polyarthritis.
- 2. Nervous system. Any of the following, alone or in combination: lymphocytic meningitis; cranial neuritis, particularly facial palsy (may be bilateral); radiculoneuropathy; or, rarely, encephalomyelitis. Encephalomyelitis must be confirmed by demonstration of antibody production against B. burgdorferi in the CSF, evidenced by a higher titer of antibody in CSF than in serum.
- 3. Cardiovascular system. Acute onset of high-grade (2nd-degree or 3rd-degree) atrioventricular conduction defects that resolve in days to weeks and are sometimes associated with myocarditis.

*Non-confirmatory. Non-confirmatory signs and symptoms include:

Fever, sweats, chills, fatigue, neck pain, arthalgias, myalgias, fibromyalgia syndromes, cognitive impairment, headache, paresthesias, visual/auditory impairment, peripheral neuropathy, encephalopathy, palpitations, bradycardia, bundle branch block, myocarditis, or other rash.

Exposure. Exposure is defined as having been (≤ 30 days before onset of EM) in wooded, brushy, or grassy areas (i.e., potential tick habitats) in a county in which Lyme disease is endemic. A history of tick bite is not required.

Disease endemic to county. A county in which Lyme disease is endemic in which at least two confirmed cases have been acquired in the county or in which established populations of a known tick vector are infected with *B. burgdorferi*.

Laboratory evidence. For the purpose of surveillance, the definition of a qualified laboratory assay is

- 1. A positive culture for *B. burgdorferi*,
- 2. Two-tier testing with IgM or IgG immunoblot seropositive interpreted using established criteria. Note: A positive IgM test result alone is not recommended for use in determining active disease in persons with illness greater than 1 month's duration because the likelihood of a false-positive test result for a current infection is high in these persons.
- 3. Single-tier IgG immunoblot seropositive interpreted using established criteria. Additional assays may be added based on periodic review of the scientific literature and strong evidence of comparable or better performance than qualifying assays.